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FIG. 4.
JDF-3 DNA polymerase genomic sequence (SEQ ID NO: 4)

AATTCCA CTGCCGTGTTTAACCTTTCCACCGTTGAACTTGAGGGTGATT
TCTGAGCCTCCTCAATCACTTAATCGAGACCGCGGATTACCTTGAAC TGG
TACACGTTCAACGATTTCGGTCTTGTAAATGGTCGATACTGGGCCGTGCTG
GATTTTCTAAACGTCTCAAGAACGGCTTTTCATCAACGGAACTGCCACGT 5' untranslated sequence
CTCCGCCGTGCTGAGGGTTAAACCTGAAGTTCAAGACTTTGCAACGGAAT
GGCGAGAGAACGGCGACTACCCAGTGAAGAGCTTTTGAAAGCCAAAGC
CGAGCTTCAGCGAATGTGCGGTGCCCTTGTTCAGAGTTGTGAGCCCTTG
ATTGTTGTTTTCTCCTCTTTTCTGATAACATCGATGGCGAAGTTTATTAG
TTCTCAGTTTCGATAATCAGGCAGGTGTTGGTC

ATGATCCTTGACGTTGAT
TACATCACCGAGAATGGAAAGCCCGTCATCAGGGTCTTCAAGAAGGAGAA
CGGCGAGTTCAGGATTGAATACGACCGCGAGTTCGAGCCCTACTTCTACG
CGCTCCTCAGGGACGACTCTGCCATCGAAGAAATCAAAAAGATAACCGCG
GAGAGGCACGGCAGGGTCGTTAAGGTTAAGCGCGCGAGAAGGTGAAGAA
AAAGTTTCTCGGCAGGTCTGTGGAGGTCTGGGTCTCTACTTCACGCACC
CGCAGGACGTTCCGGCAATCCGCGACAAAATAAGGAAGCACCCCGCGGTC
ATCGACATCTACGAGTACGACATAACCTTCGCCAAGCGCTACCTCATAGA
CAAGGGCCTAATCCCGATGGAAGGTGAGGAAGAGCTTAAACTCATGTCCT
TCGACATCGAGACGCTCTACCACGAGGGAGAAGAGTTTGGAAACGGGCCG
ATTCTGATGATAAGCTACGCCGATGAAAGCGAGGCGCGCTGATAACCTG
GAAGAAGATCGACCTTCTTACGTTGAGGTTGTCTCCACCGAGAAGGAGA
TGATTAAGCGCTTCTTGGAGGTCGTTAAGGAGAAGGACCCGGACGTGCTG
ATAACATAACAACGGCGACAACCTTCGACTTCGCCTACCTGAAAAAGCGCTG
TGAGAAGCTTGGCGTGAGCTTTACCCTCGGGAGGGACGGGAGCGAGCCGA Extein 1
AGATACAGCGCATGGGGGACAGGTTTGCGGTGAGGTGAAGGGCAGGGTA
CACTTCGACCTTTATCCAGTCATAAGGCGCACCATAAACCTCCCGACCTA
CACCCTTGAGGCTGTATACGAGGCGGTTTTTCGGCAAGCCCAAGGAGAAGG
TCTACGCCGAGGAGATAGCCACCGCCTGGGAGACCGGCGAGGGGCTTGAG
AGGGTCGCGCGCTACTCGATGGAGGACGCGAGGGTTACCTACGAGCTTGG
CAGGGAGTTCTTCCCGATGGAGGCCAGCTTTCCAGGCTCATCGGCCAAG
GCCTCTGGGACGTTTCCCGCTCCAGCACCGGCAACCTCGTCGAGTGGTTC
CTCCTAAGGAAGGCCTACGAGAGGAACGAACTCGCTCCCAACAAGCCCGA
CGAGAGGGAGCTGGCGAGGAGAAGGGGGGGCTACGCCGTTGGCTACGTCA
AGGAGCCGGAGCGGGGACTGTGGGACAATATCGTGTATCTAGACTTTCTGT
AGTCTCTACCCTTCAATCATAATCACCCACAACGTCTCGCCAGATACGCT
CAACCGCGAGGGGTGTAGGAGCTACGACGTTGCCCCGAGGTGCGTCACA
AGTTCTGCAAGGACTTCCCCGGCTTCATTCCGAGCCTGCTCGGAAACCTG
CTGGAGGAAAGGCAGAAGATAAAGAGGAAGATGAAGGCAACTCTCGACCC
GCTGGAGAAGAATCTCCTCGATTACAGGCAACGCGCCATCAAGATTCTCG
CCAAC

AGCCTTCTTCCCGGGGAGTGGGTTGCGGTCAATTGAAGGGGGGAAA
CTCAGGCCCGTCCGCATCGGCGAGCTGGTTGATGGACTGATGGAAGCCAG
CGGGGAGAGGGTGAAAAGAGACGGCGACACCGAGGTCTTGAAGTCGAGG
GGCTTTACGCCTCTCCTTCGACAGGGAGTCCAAGAAAGCCCGCACAAATGC
CGGTGAAAGCCGTGATAAGGCACCGCTATGCCGGGGAAAGTTTACAGAATA
GCTCTCAACTCCGGAAGGAGGATTAAGCGTGACGCGCGGCCACAGCCTCT
TCGCGTACCGGGACGCGAGCTTGTGGAGGTGACGGGGAGGAGGAGGTTT
AAGCCCGGCGACCTCCTGGCGGTGCCAAGCGGATAACCTCCCGGAGAGG

Intein 1



AGGGAGAGGCTCAACATCGTTGAACTGCTCCTCGAACTGCCCCGAGGAGGA
AACGGCCGACATGTCATCGACATTCCGGCAAGGGTAGAAAGAACTTCTTC
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AGGGCGGCCAGGCGCTACCTGGAGCACCTTGCGTGGGCTCGGCTACGTGA
AGCTGAGGAAAATCGGCTACGGGGTGGTTGATAGGGAGGGACTGGGAAAG
GTACCGCGCTTCTACGAGAGGCTCGTGGAGGTAATCCGCTACAACGGCAA
CAGGGGGGAGTTTCATCGCCGATTTCAACGCGCTCCGCCCCGTCTCCGCC
TGATGATGCCCCGAGAAGGAGCTTGAAGAGTGGCTCGTTGGGACGAGGAAC
GGTTTCAGGATAAGGCCGTTTCATAGAGGTTGATTGGAAGTTTCGCAAAGCT
CCTCGGCTACTACGTGAGCGAGGGGAGCGCCGGGAAGTGGAAAAACCGGA
CCGGGGGCTGGAGCTACTCGGTGAGGCTTTACAACGAGGACGGGAGCGTT
CTCGACGACATGGAGAGACTCGCGAGGAGTTCTTTGGGGCGTGAGCGCG
GGGGAACTACGTCGAGATTTCAAAGAAGATGGCCTACATAATCTTCGAG
GGGCTCTGCGGTTACCGGCCGAGAACAAAGAGGGTTCCGTGGCTTATCTT
CACGTCCCCTGAGGAGTCCGCTGGGCCTTCTTGAGGGGTACTTCATCG
GCGACGGCGAGTTACCCGAGCAAGATGGTTCCGCTCTCCACCAAGAGC
GAGTTCTGGCTAACGGCCTCGTCTGCTCCTGAACTCGCTGGGCGTCTC
AGCGATAAACGTCCGCCACGACAGCGGGGTTTACAGGGTCTACGTGAACG
AGGAAGTGCCTTTACAGAGTACCGGAAGCGGAAGAAGCGCTCACTTACT
CCCACGTATACCGAGGGAAGTGCTGGAGGAGACTTCGGCCGGGCCTTCC
AGAAGAACATGAGTCACGGGAAATTACGGGAGCTGGTGGAAAGCGGGGAG
CTCGACGCGGAAAGGGCCGGTAGGATAGGCTGGCTCCTCGACGGGGATAT
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Intein 1

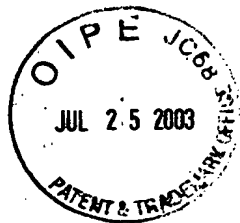
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AGTCCTCTATGCAGACACAGACGGTCTCCATGCCACCATTCCTGGAGCGG
ACGCTGAAACAGTCAAGAAAAAGGCAATGGAGTTCTTAACTATATCAAT
CCCAAAGTCCCCGGCCTTCTCGAACTCGAATACGAGGGCTTCTACGTCAG
GGGCTTCTTCGTACGAAGAAAAAGTACGCGGTATCGACGAGGAGGGCA
AGATAACCACGCGCGGGCTTGAGATAGTCAGGCGCGACTGGAGCGAGATA
GCGAAGGAGACGCAGGCGAGGGTTTTGGAGGCGATACTCAGGCACGGTGA
CGTTGAAGAGGCCGTGAGAAATTGTCAGGGAAGTCACCGAAAAGCTGAGCA
AGTACGAGGTTCCGCCGAGAAAGCTGGTTATCCACGAGCAGATAACGCGC
GAGCTCAAGGACTACAAGGCCACCGCCCCGCACGTAGCCATAGCGAAGCG
TTTGGCCGCCAGAGGTGTTAAATCCGGCCCCGAACTGTGATAAGCTACA
TCGTTCTGAAGGGCTCCGGAAGGATAGGCGACAGGGCGATTCCCTTCGAC
GAGTTTCGACCCGACGAAGCACAAGTACGATGCGGACTACTACATCGAGAA
CCAGGTTCTGCCGCGAGTTGAGAGAAATCCTCAGGGCCTTCGGCTACCGCA
AGGAAGACCTGCGCTACCAGAAGACGAGGCAGGTCTGGGCTTGGCGCGTGG
CTGAAGCCGAAGGGGAAGAAGAAGTGA

Extein 2

GGAATTATCTGGTTTCTTTTCCC
AGCATTAAATGCTTCCGACATTGCCTTATTTATGAACTCCTGTTGTGCC
TGAGTTTGTGCCAGAAAAACAGCCTGTTCTGACGGCGCTTTTTCTTGCCAG
GTCTCTTGAGTTTCGCAAGGGTCTTCTCGACCAGCTCAATGGTCTTGTGCG
TCATTGTTNNNNNNNNNNNNNNNNNNNNCCCGGGGACTTCATACTGGC
GGTAATAGACAGGGATTCTTCTCAAGGACTTCCCGGGAGGCATTGGAG
TTTTTTGGTGGGGCTTTCACAGGATTTGCTCATCTTGTGGATTTCTCGTT
CGATTGAATCTGTCCACTTGAGGGTGTAGGTGAGACGGTGGAGCGCGTA



TTCCGGGAGCGGGTCTTGAGGCTCCATTTTTTCAGTCCTCCTCCGGCGAAG 3' Untranslated sequence
AAGTGGAACCTCAAGCCGGGTGTTAGCTTATGTTATGTTCCCAACTCCTCC
AGCACCTCCAGGATCCCCCTCAATCCCGGAACCTCGAAGCCCCCTCTCGTGG
ATCTTTCTAACTTCTCTGCCTCCGGGTTTATCCAGACCGCCACATGCC
GGCTCTCAGCGCACCTCGAAATCCTCCGCGTAGGTGTCGCCGATGTGGA
TTGCCTCGTCCGGCTCGACCCCGAAGCATCGAGCGGTTTTCTGAACATCT
CGGGCATCGGCTTATACGCCAGAACCTCGTCGGCGAAGAAGGTTCCCTCA
ATGTAGTCCATCAGGCCGAACCTCTCGAGGGGGGGCCCGGTACCCAATTC
GCCCTATAGTGAGTCGATTACAATTCAGTGGCCGTCGTTTTACAACGTCG
TGACTGGGAAAACCTGGCGTTACCCAACCTTAAGTCGCTTTGCAGCACAT
CCCCC



Preliminary Qualification of Mutants

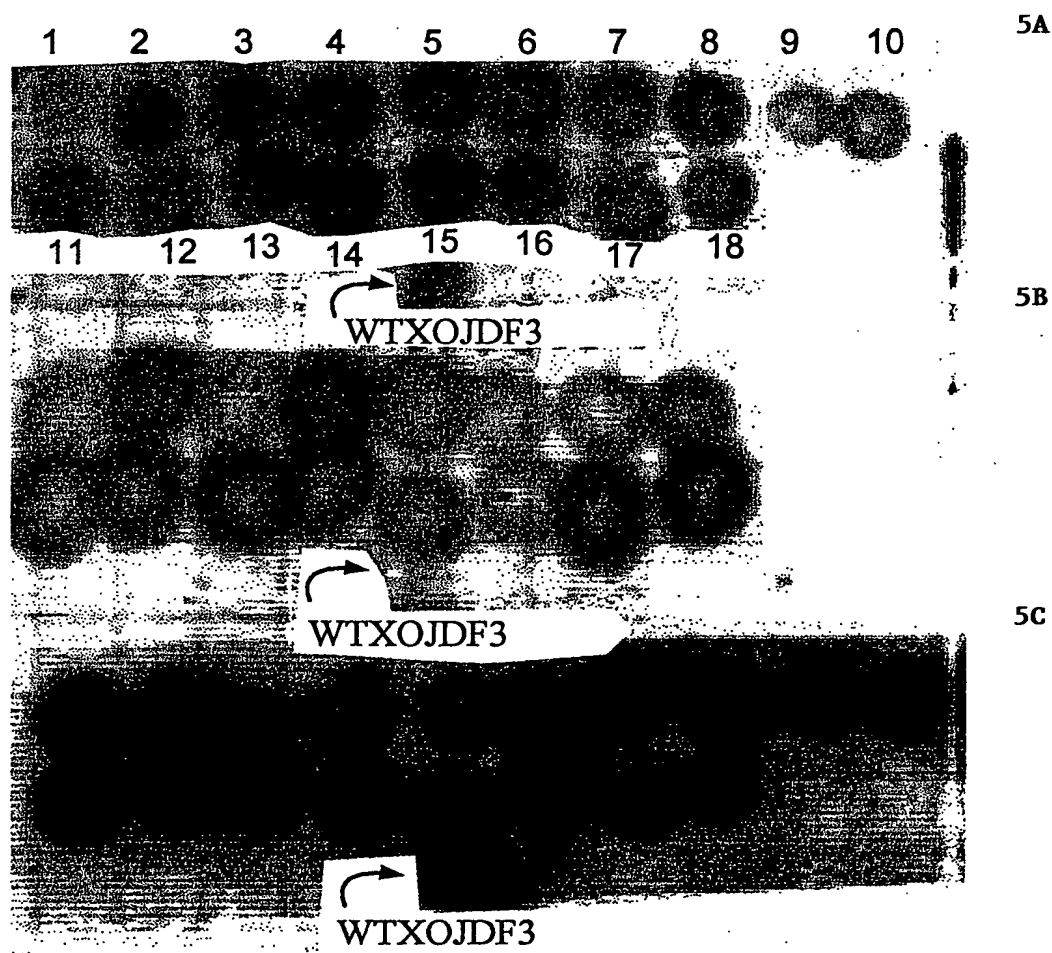


FIG. 5



Sequencing with Purified Mutants

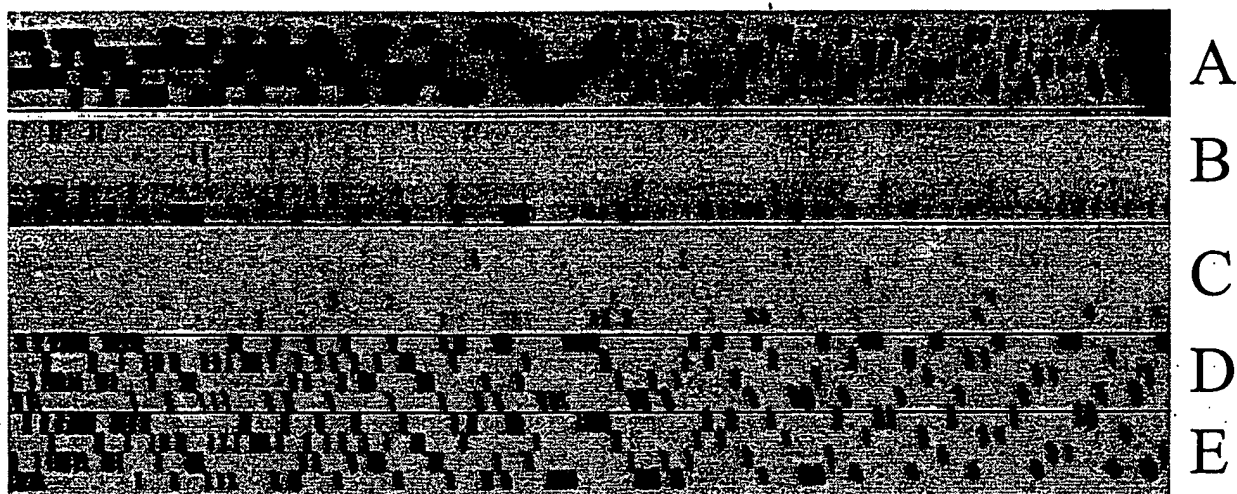


Figure 6

SUBSTITUTE FIGURE



Sequencing with Dye-labeled Dideoxynucleotides

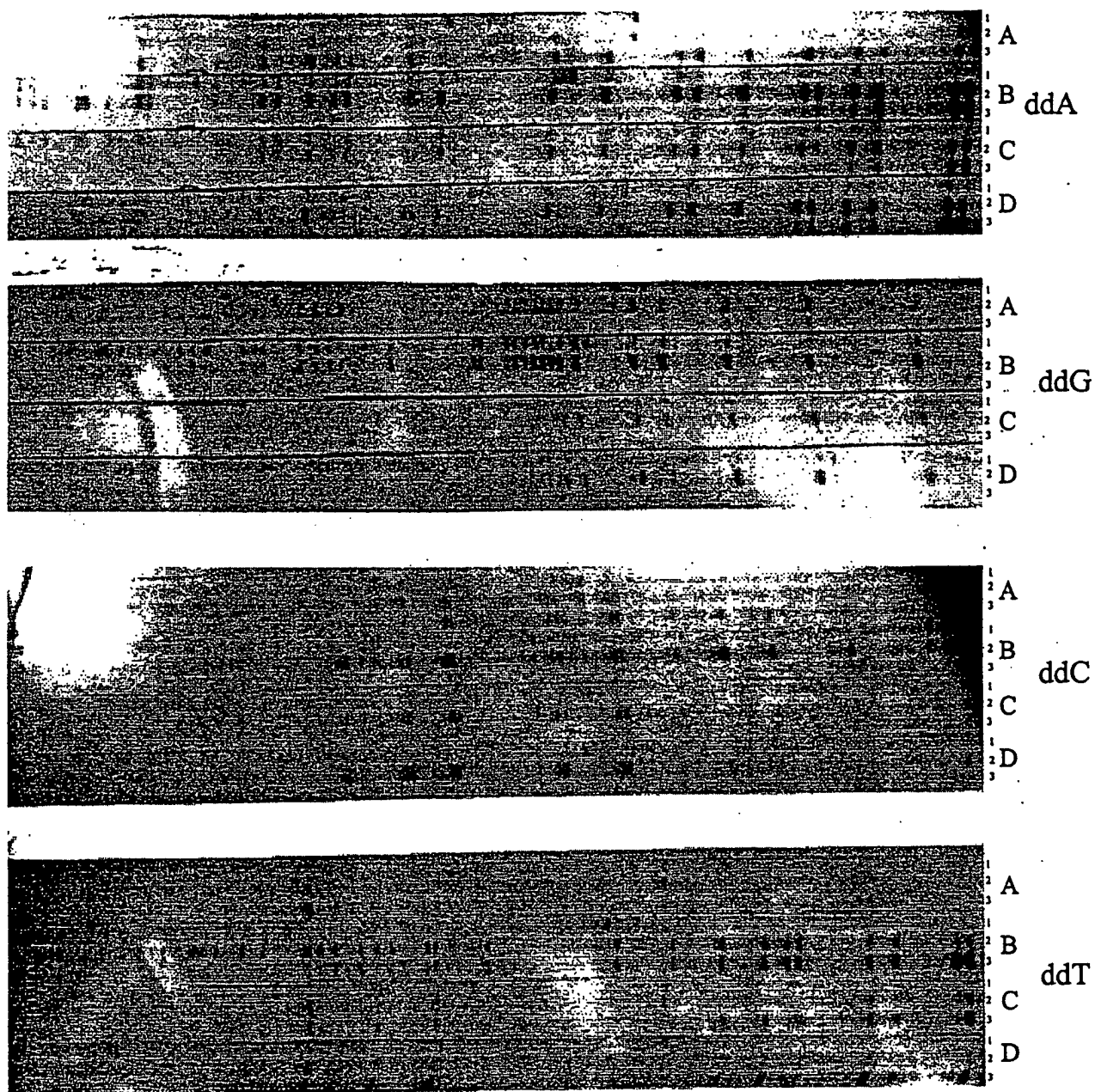


Figure 7



Sequencing with the P410L, A485T Double Mutant and α -³³P Dideoxynucleotides

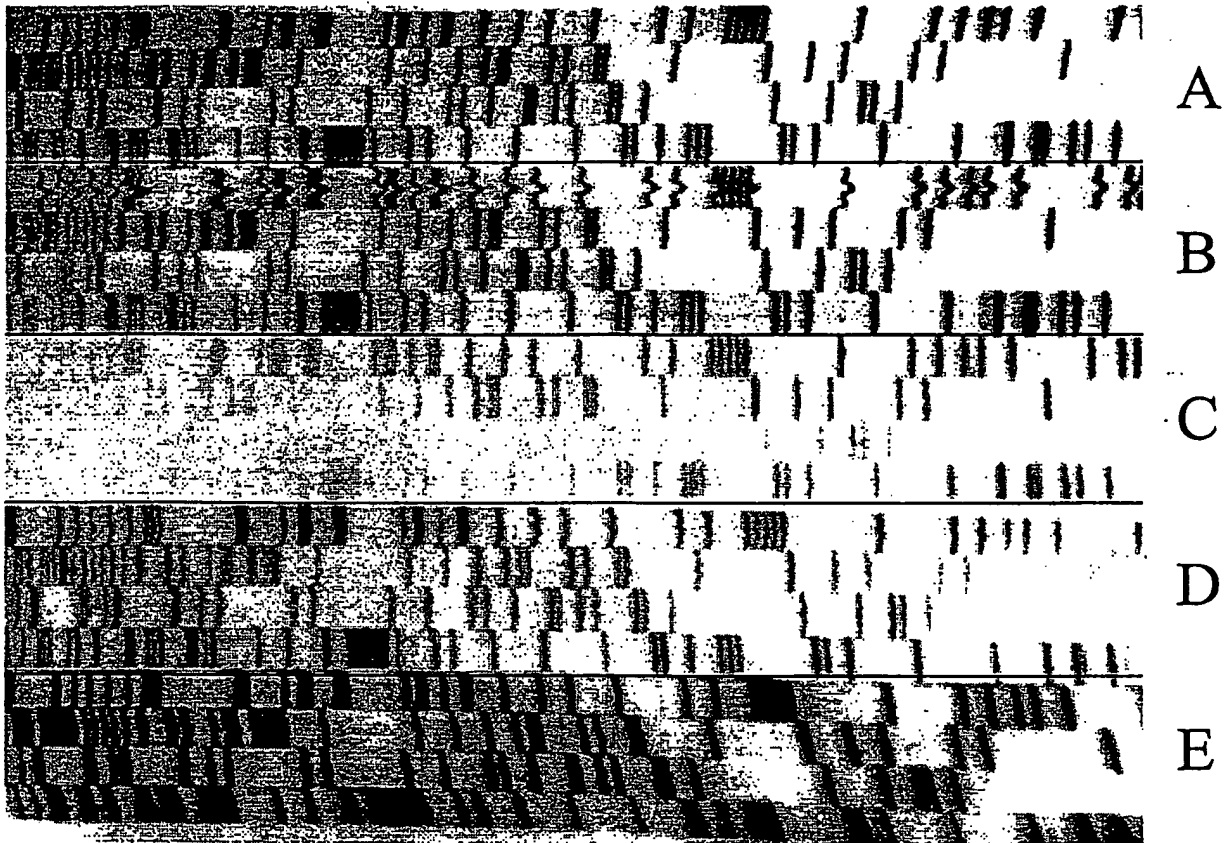


Figure 8

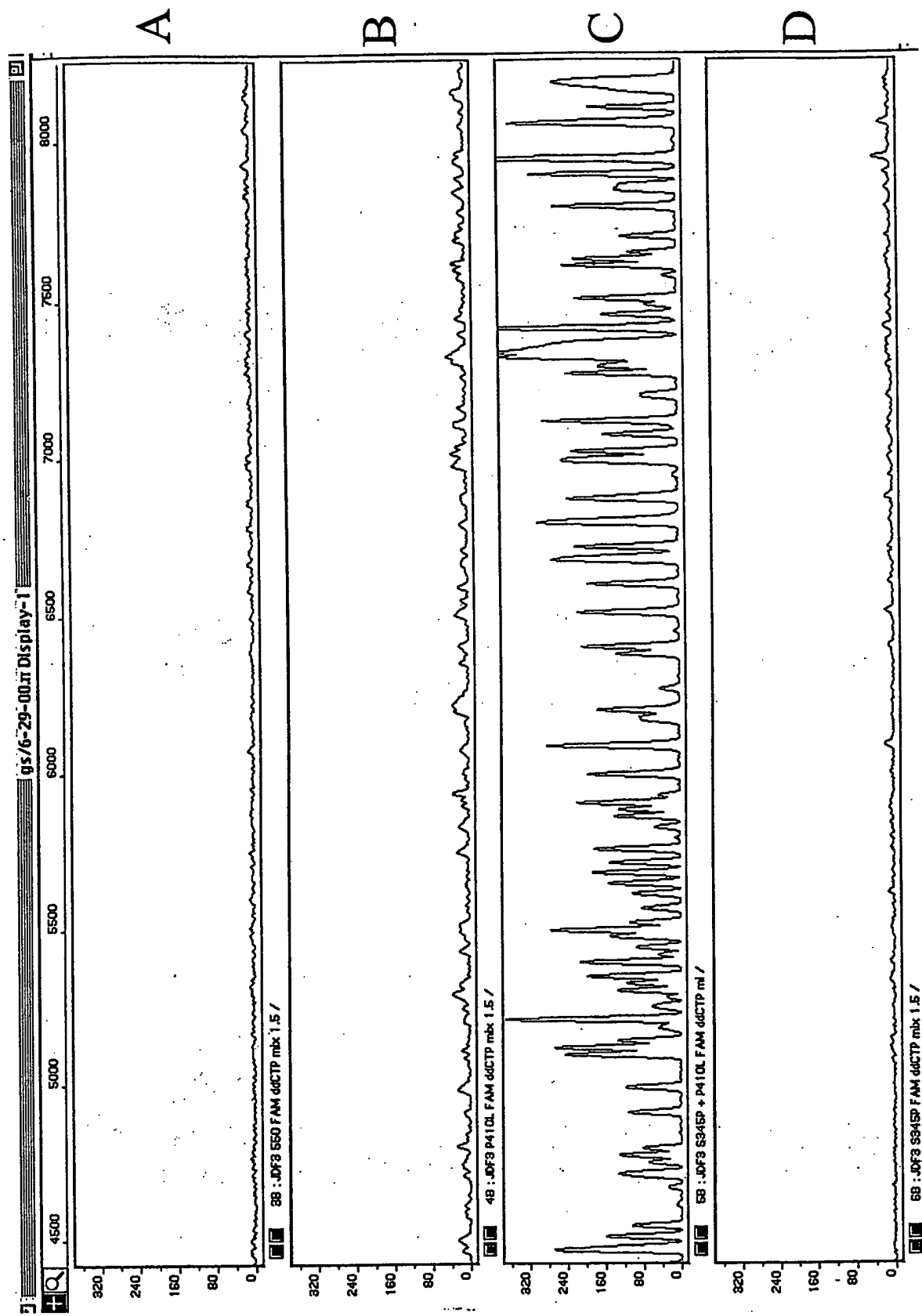


Figure 10

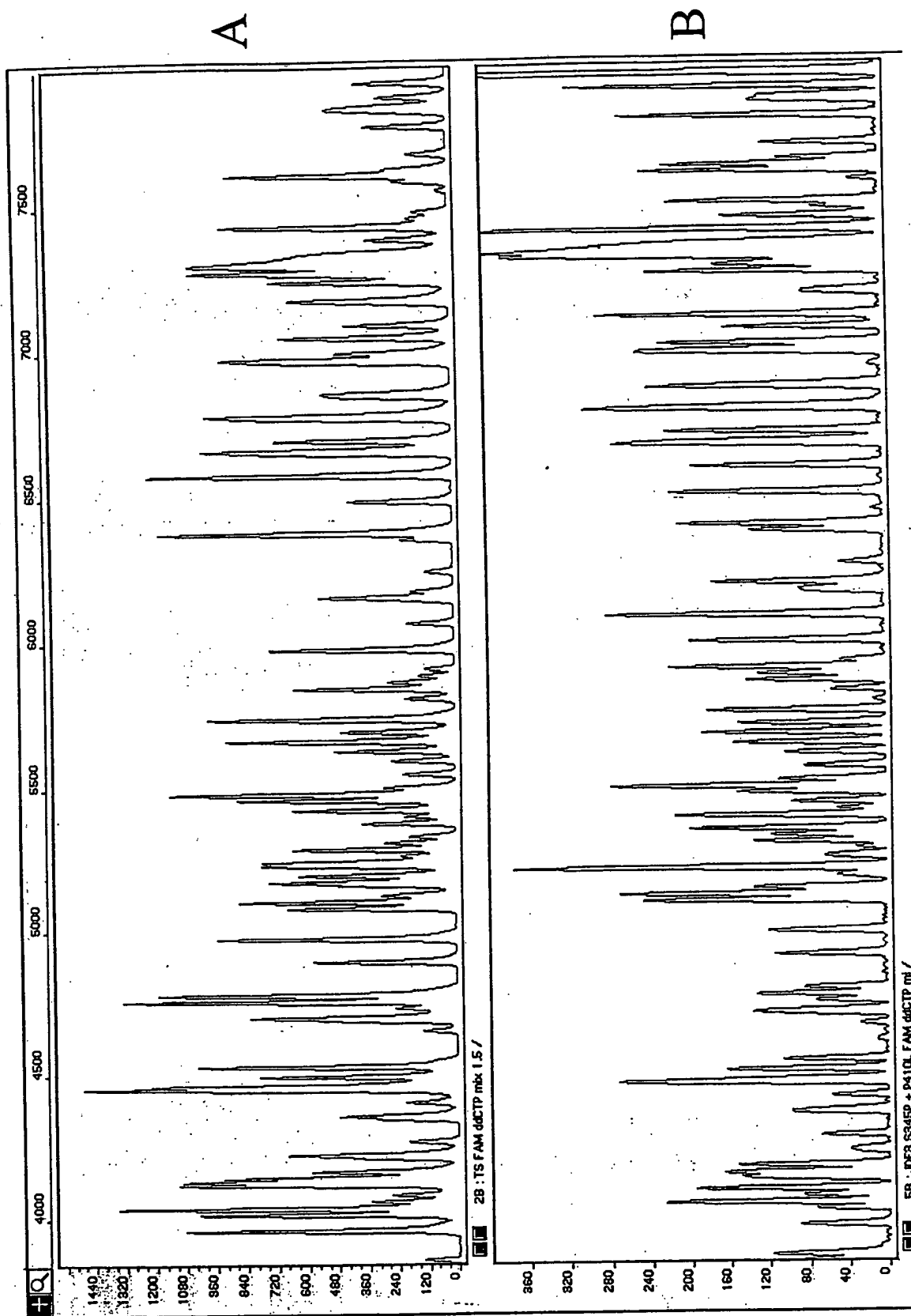


Figure 11



^{33}P - TAACGTTGGGGGGGGGGCA →
TGCAACCCCCCCCCCGTAT

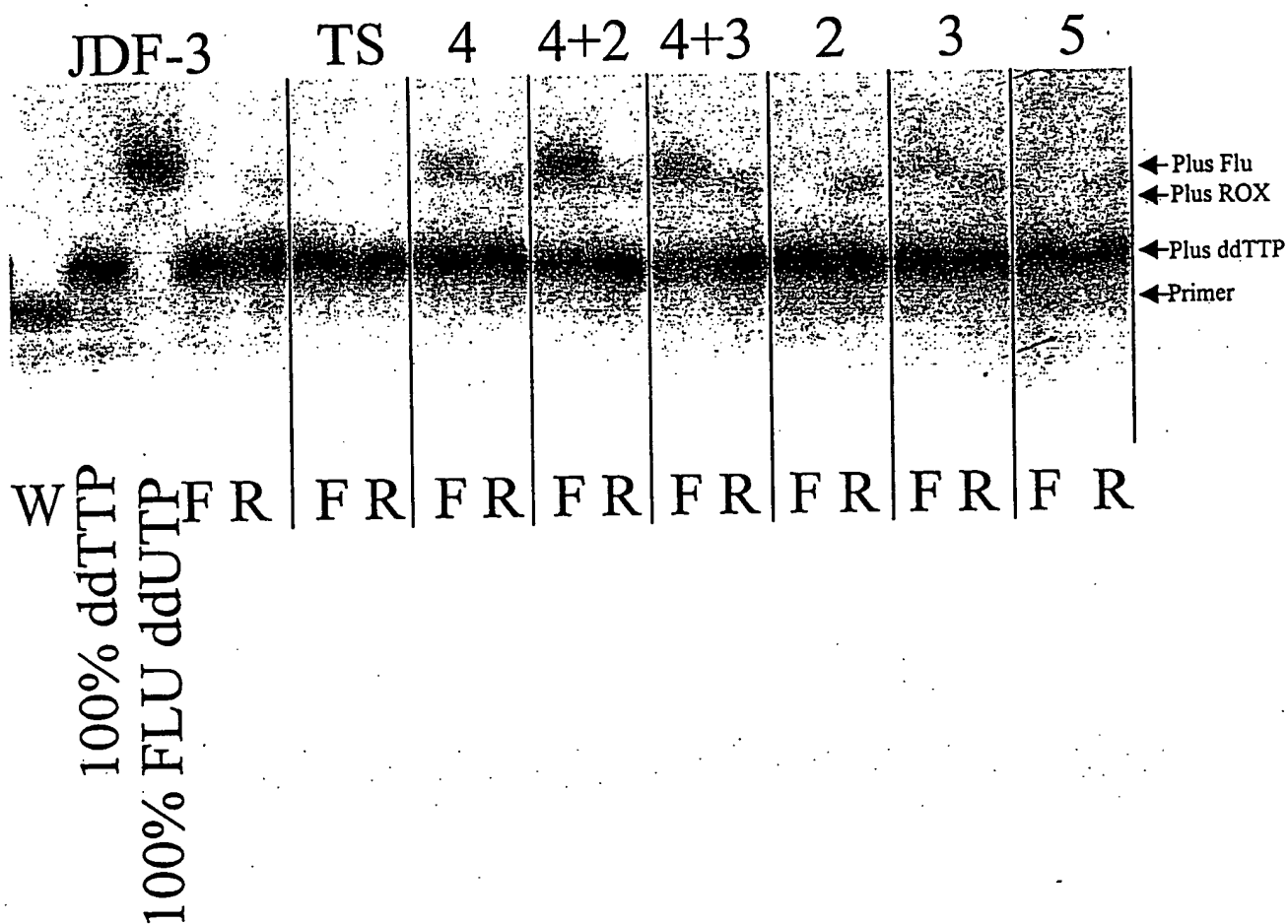
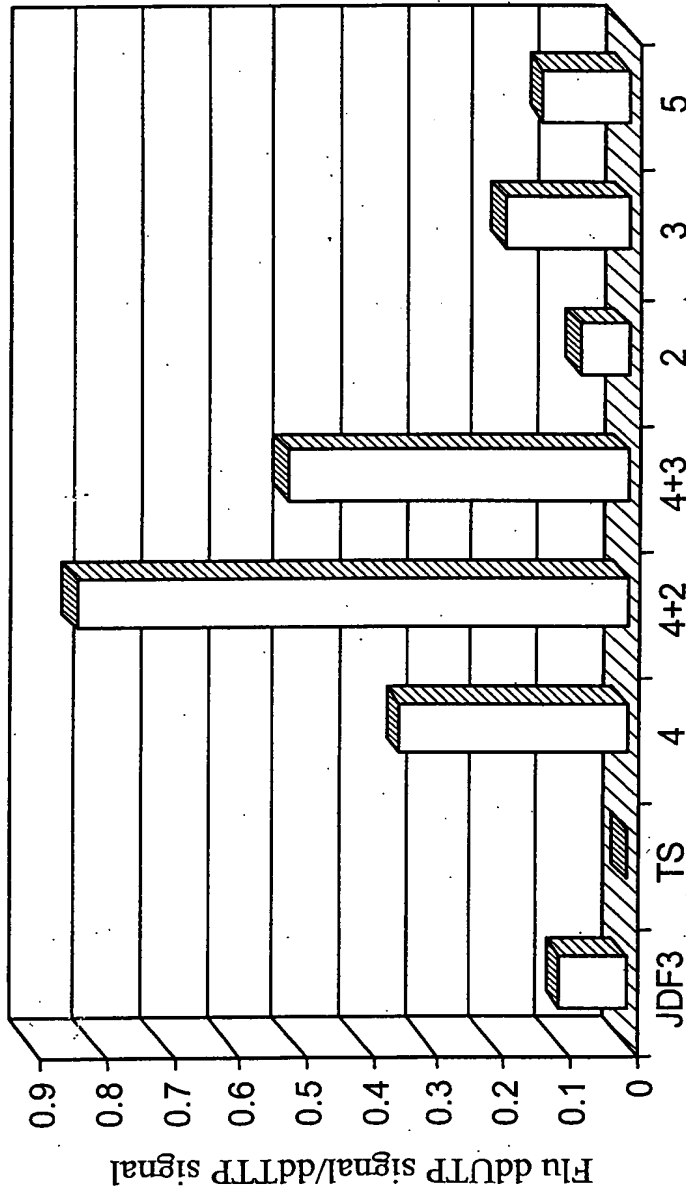


Figure 12



Mutants

FIG. 13

SUBSTITUTE FIGURE



4	1	-----LVXNAXSTGNLVEWFLLRK
10	1	-----VWDVSRSTGNLVEWFLLRK
13	1	-----VWDVSRSTGNLVEWFLLRK
16	1	-----VWDVSRSTGNLVEWFLLRK
18	1	-----VWDVSRSTGNLVEWFLLRK
19	1	-----VWDVSRSTGNLVEWFLLRK
28	1	-----VWDVSRSTGNLVEWFLLRK
34	1	-----VWDVSRSTGNLVEWFLLRK
41	1	-----VWDVSRSTGNLVEWFLLRK
33	1	-----VWDVSRSTGNLVEWFLLRK
48	1	-----YWSXPXLRSGNLVEWFLLRK
55	1	-----VIGTXPRSTGNLVEWFLLRK
64	1	-----XXXFWWDVSRSTGNLVEWFLLRK
Jdf3	301	TGEGLERVARYSMEDARVTYELGREFFPMEAQLSRLIGQGWWDVSRSTGNLVEWFLLRK

4	20	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
10	21	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
13	21	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
16	21	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
18	21	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
19	21	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
28	21	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
34	21	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
41	21	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
33	21	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
48	21	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
55	22	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
64	24	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP
Jdf3	361	AYERNELAPNKPDERELARRRGYAGGYVKEPERGLWDNIVYLDFRSLYPSIIITHNVSP

4	80	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
10	81	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
13	81	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
16	81	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
18	81	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
19	81	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
28	81	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
34	81	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
41	81	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
33	81	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
48	81	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
55	82	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
64	84	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD
Jdf3	421	DTLNREGCRSYDVAPEVGHKFKCDFPGFIPSLGNNLEERQKIKRKMKATLDPLEKNLLD

Figure 14



4	140	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
10	141	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
13	141	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
16	141	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
18	141	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
19	141	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
28	141	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
34	141	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
41	141	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
33	141	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
48	141	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
55	142	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
64	144	YRQRAIKILANSYYG	NYGYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD
Jdf3	481	YRQRAIKILANSYYGYG	GYARARWYCRECAESVTAWGREYIEMVIRELEEEKFGFKVLYAD

4	200	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
10	201	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
13	201	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
16	201	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
18	201	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
19	201	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
28	201	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
34	201	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
41	201	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
33	201	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
48	201	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
55	202	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
64	204	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE
Jdf3	541	TDGLHATIPGADAETVKKKAMEFLNYINPKLPGLLELEYEGFYVRGFFVT	KKKYAVIDEE

4	260	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
10	261	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
13	261	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
16	261	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
18	261	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
19	261	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
28	261	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
34	261	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
41	261	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
33	261	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
48	261	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
55	262	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
64	264	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL
Jdf3	601	GKITTRGLEIVRRDWSEIAKETQARVLEA	ILRHGDVEEAVRIVREVTEKLSKYEPPEKL

Figure 15



Preliminary Qualification of Mutants

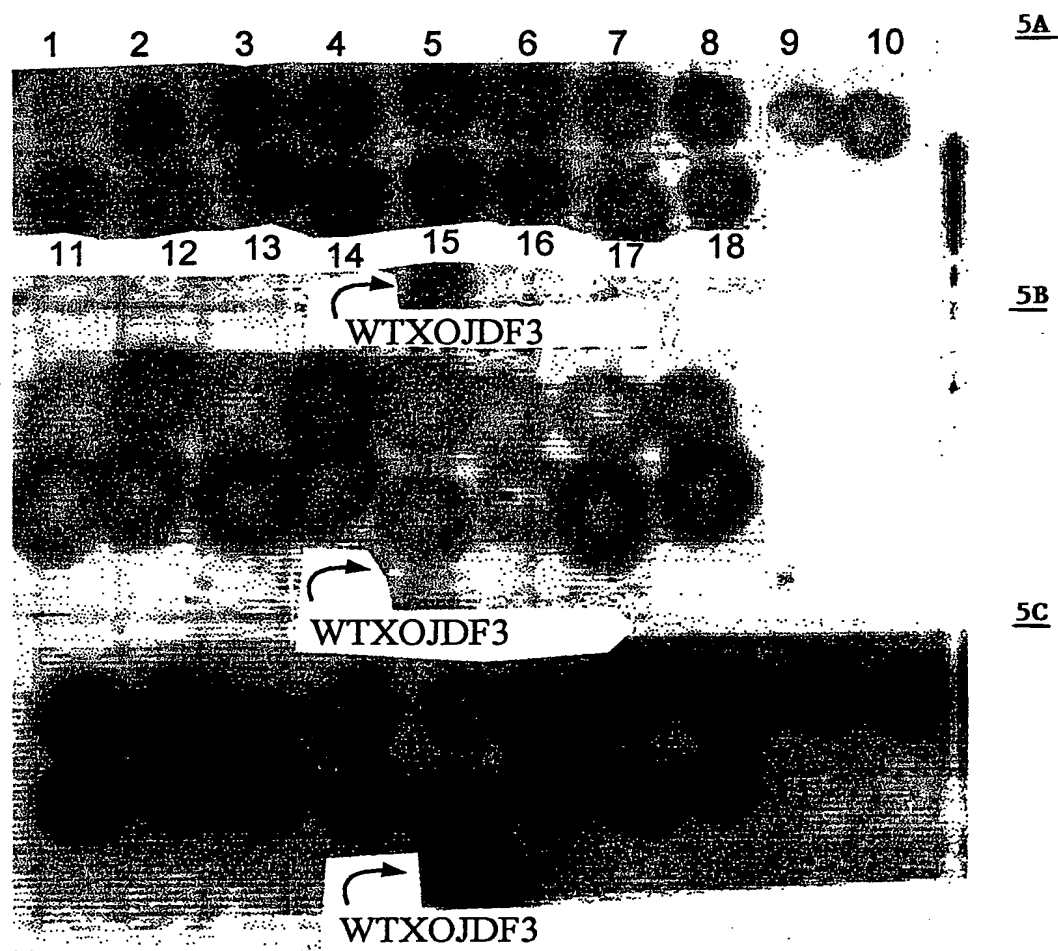


FIG. 5